**Lab Sheet3**

Problem Statement : JSP with data base

AIM:

To demonstrate the usage of JSP by develop a dynamic web application to connect with MySQL database.

ALGORITHM

Step 1 : In MySQL database server to create the table by

Create table employees(eno int,name varchar(30),gender varchar(1),dept varchar(10),salary float(10,2));

Step 2: To open Eclipse IDE and create a Dynamic Web Project.

Step 2: To create a Insert JSP file to accept the user input of employee details in a form. After entered the data the information will be store into the employees table.

Step 6: To create a JSP Disp program to process the user request and retrieve employees from the employess table in a database.

PROGRAM:

**Insert.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<%@ page import=*"java.sql.\*"* %>

<%@ page import=*"java.io.\*"* %>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body bgcolor=*"#ffffcc"*>

<font size=*"+3"* color=*"green"*><br>Welcome to Presidency University !</font>

<FORM action=*"insert.jsp"* method=*"get"*>

<TABLE style="background-color: *#ECE5B6*;" WIDTH=*"30%"* >

<TR>

<TH width=*"50%"*>Employee No:</TH>

<TD width=*"50%"*><INPUT TYPE=*"text"* NAME=*"eno"*></TD>

</tr>

<TR>

<TH width=*"50%"*>Employee Name</TH>

<TD width=*"50%"*><INPUT TYPE=*"text"* NAME=*"name"*></TD>

</tr>

<tr>

<TH width=*"50%"*>Employee Gender</TH>

<TD width=*"50%"*><INPUT TYPE=*"text"* NAME=*"gender"*></TD>

</tr>

<tr>

<TH width=*"50%"*>Employee Department</TH>

<TD width=*"50%"*><INPUT TYPE=*"text"* NAME=*"dept"*></TD>

</tr>

<tr>

<TH width=*"50%"*>Employee Salary</TH>

<TD width=*"50%"*><INPUT TYPE=*"text"* NAME=*"salary"*></TD>

</tr>

<TR>

<TH></TH>

<TD width=*"50%"*><INPUT TYPE=*"submit"* VALUE=*"submit"*></TD>

</tr>

</TABLE>

<%

**int** uq=0;

**try** {

Class.forName("com.mysql.jdbc.Driver");

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/god?characterEncoding=latin1","root","admin123");

PreparedStatement pstatement = con.prepareStatement("INSERT INTO EMPLOYEES VALUES(?, ?, ?, ?, ?)");

pstatement.setInt(1, Integer.valueOf(request.getParameter("eno")));

pstatement.setString(2, request.getParameter("name"));

pstatement.setString(3, request.getParameter("gender"));

pstatement.setString(4, request.getParameter("dept"));

pstatement.setFloat(5, Integer.valueOf(request.getParameter("salary")));

uq=pstatement.executeUpdate();

pstatement.close();

con.close();

}

**catch**(Exception ex) {

//out.println("Unable to connect to database.");

}

**if** (uq != 0) {

%>

<br>

<TABLE style="background-color: *#E3E4FA*;"

WIDTH=*"30%"* border=*"1"*>

<tr><th>Data is inserted successfully in database.</th></tr>

</table>

<%

} %>

</form>

</body>

</html>

Disp.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<%@ page import=*"java.sql.\*"* %>

<%@ page import=*"java.io.\*"* %>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h2>Employee Details</h2>

<%

**try** {

Class.forName("com.mysql.jdbc.Driver");

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/god?characterEncoding=latin1","root","admin123");

Statement st = con.createStatement();

ResultSet rs = st.executeQuery("select \* from employees");

%>

<TABLE cellpadding=*"15"* border=*"1"* style="background-color: *#ffffcc*;">

<tr><th>E.No</th><th>Name</th><th>Gender</th><th>Department</th><th>Salary</th><tr>

<%

**while** (rs.next()) {

%>

<TR>

<TD><%=rs.getInt(1)%></TD>

<TD><%=rs.getString(2)%></TD>

<TD><%=rs.getString(3)%></TD>

<TD><%=rs.getString(4)%></TD>

<TD><%=rs.getFloat(5)%></TD>

</TR>

<% } %>

<%

// close all the connections.

rs.close();

st.close();

con.close();

} **catch** (Exception ex) {

%>

<font size=*"+3"* color=*"red"*></b>

<%

out.println("Unable to connect to database.");

}

%>

</TABLE><TABLE>

<TR>

<TD><FORM ACTION=*"disp.jsp"* method=*"get"* >

<button type=*"submit"*><-- back</button></TD>

</TR>

</TABLE>

</font>

</body>

</html>

RESULT:

Thus the dynamic web application has been created and process the employees data with JSP programs.